Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > **Utility, Design and Plant Patents**

Enter Search Terms

(•) Terms and Connectors ( ) Natural Language

patno is 5804421 or patno is 5,804,421 Search

Use connectors to show relation of terms (cat **or** feline, jane **w/3** doe) more...

Suggest Words and Concepts for Entered Terms

Restrict Search Using Document Segments

Optional: Restrict by Date

(•) No Date Restrictions ( ) From To

1 of 1 DOCUMENT

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5804421

Link to Claims Section

September 8, 1998

High level of expression of ingap in bacterial and euraryotic cells

REISSUE: Reissue Application filed Sep. 8, 2000 (O.G. Nov. 21, 2000) Ex. Gp.: 1652; Re. S.N. 09/659,379, (O.G. November 21, 2000)

APPL-NO: 909725 (08)

FILED-DATE: August 12, 1997

GRANTED-DATE: September 8, 1998

ENGLISH-ABST:

Removal of the nucleotide sequence encoding the signal peptide from the INGAP coding sequence allows cultured cells to express substantial amounts of INGAP activity. Previous attempts have provided only low yields of INGAP, possibly because the signal sequence of INGAP is toxic to the cells.

News & Business > News > **News, Most Recent Two Years (English, Full Text)**

Enter Search Terms

(•) Terms and Connectors ( ) Natural Language

5804421 or 5,804,421

Search

Use connectors to show relation of terms (cat **or** feline, jane **w/3** doe) more...

Suggest Words and Concepts for Entered Terms

Restrict Search Using Document Segments

Optional: Restrict by Date

(•) No Date Restrictions ( ) From To

No Documents Found!

No documents were found for your search (**5804421 or 5,804,421**). Please edit your search and try again. You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use more common search terms.
- If applicable, look for all dates.

Edit Search

Legal > Area of Law - By Topic > Patent Law > Legal News > **Patent, Trademark & Copyright Periodicals, Combined**

Enter Search Terms

(•) Terms and Connectors ( ) Natural Language

5804421 or 5,804,421 Search

Use connectors to show relation of terms (cat **or** feline, jane **w/3** doe) more...

Suggest Words and Concepts for Entered Terms

Restrict Search Using Document Segments

Optional: Restrict by Date

(•) No Date Restrictions ( ) From To

No Documents Found!

No documents were found for your search (**5804421 or 5,804,421**). Please edit your search and try again. You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use more common search terms.
- If applicable, look for all dates.

Edit Search

Enter Search Terms

(•) Terms and Connectors ( ) Natural Language

5804421 or 5,804,421

Search

Use connectors to show relation of terms (cat **or** feline, jane **w/3** doe) more...

Suggest Words and Concepts for Entered Terms

Restrict Search Using Document Segments

Optional: Restrict by Date

(•) No Date Restrictions ( ) From To

No Documents Found!

No documents were found for your search (**5804421 or 5,804,421**). Please edit your search and try again. You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use more common search terms.
- If applicable, look for all dates.

Edit Search

LexisNexis CourtLink PATENT

Cases with links by court:

Select a District court...

OR

Cases by patent number (No Charge!):

5804421

Client Matter: **Client Note**

Display Clear

Click here for patent format rules.

Case Results | Docket Cart | Help

View Current Charges | Pricing

Log Out | my CourtLink

Patent Links

Using the data entry fields on the left of the screen:

- Select a court, or ...
- Type in a patent number (include commas)
- Enter your client matter and client notes (optional)
- Click "Display"

A listing of cases with links to patents or cases involving the pa you entered will be displayed.

To view a list of patent number formatting rules, click here.

LexisNexis CourtLink PATENT

Cases with links by court:

Select a District court...

OR

Cases by patent number (No Charge!):

5804421

Client Matter: **Client Note**

Display Clear

Click here for patent format rules.

Case Results | Docket Cart | Help

View Current Charges | Pricing

Log Out | my CourtLink

Litigation involving patent 5804421

Click on the docket number to view the docket.
Click on the above patent number to view the patent.

Docket	Case Heading	Date Filed	Date Retrvd

There are no cases involving this patent number.

Robinson Patent #5,804,421, Application #09/659,379

Current session 17/08/2004

(C) QUESTEL 1994
QUESTEL.ORBIT (TM) 1998 17/08/04 15*28*07
Last connection: 09/07/04 21*48*28

WELCOME to QUESTEL.ORBIT- Your Guide to INTELLECTUAL PROPERTY
www.questel.orbit.com - Gateway, documentation & IP resource
- Times of operation of Questel.Orbit service, see INFO HOURS
- EPO Citation Relevancy Codes now searchable in PlusPat file
- New files: Czech, Hungarian, Polish & Lithuanian Trademarks
see CZMARK, HUMARK, PLMARK & LTMARK Fact Sheets on web-site
- 2004 Euro & US Dollar Price Lists available on our web-site
- Enhanced SDI Email Delivery with Links to Download Results
- New Export Feature: improved offline options - INFO EXPORT
- *PatentExaminer portfolio manager available - INFO PATEXAM
..FILE / ..INFO / ..GUIDE

Query/Command : ..ba pluspat; (us5804421)/PN /XPN

QUESTEL - Time in minutes : 1,19
The cost estimation below is based on Questel's
standard price list
Estimated cost : 1.19 USD
Cost estimated for the last database search : 1.19 USD
Estimated total session cost : 1.19 USD

Selected file: PLUSPAT

PLUSPAT - (c) Questel-Orbit, All Rights Reserved.
Comprehensive Worldwide Patents database
New Patent Citation Commands & FAM Citation Report - see INFO PATCITE
Announcing enhanced searchability of Relevancy Codes in Search Reports
for EP, WO and FR patents. For more details see below and on QO website
-To retrieve set of high relevancy X coded cited patents, use xctx=yes
-To extract cited patents with only high relevancy code, use mem/xctx
Last update of file: 2004/08/11 (YYYY/MM/DD) 2004-32/UP (basic update)

**** SS 1: Results 1**

Search statement 2

Query/Command : PRT SS 1 MAX 1

1 / 1 PLUSPAT - ©QUESTEL-ORBIT - image
Patent Number :
US5804421 A 19980908 [US5804421]
Title :
(A) High level of expression of ingap in bacterial and euraryotic cells
Patent Assignee :

Searched by P. Ruppel

(A) EASTERN VIRGINIA MEDICAL SCHOO (US)

Patent Assignee :

Eastern Virginia Medical School of the Medical College fo Hampton Roads, Norfolk VA [US]

Inventor(s) :

(A) VINIK AARON I (US); PITTENGER GARY L (US); RAFAELOFF-PHAIL RONIT (US); BARLOW SCOTT W (US)

Application Nbr :

US90972597 19970812 [1997US-0909725]

Filing Details :

C.I.P. of US741096 19961030 [1996US-0741096] (Abandoned)

Priority Details :

US74109696 19961030 [1996US-0741096]
US90972597 19970812 [1997US-0909725]

Intl Patent Class :

(A) C12N-015/00

EPO ECLA Class :

C07K-014/47A22

EPO ICO Class :

M07K-207/00
M07K-211/00

US Patent Class :

ORIGINAL (O) : 435069100; CROSS-REFERENCE (X) : 435252300 435320100 530350000 536023100 536023500 536024100

Document Type :

Corresponding document

Citations :

US4439521; US4935000; US4965188

Stein et al., "Antisense Oligonucleotides as Therapeutic Agents--Is the Bet Really Magical?", Science 261:1004-1012 (1993).

Bradley et al., "BioTechnology. Modifying the Mouse", Design and Desire 10:534-539 (1992).

Miller et al., "Human Gene Therapy Comes of Age", Nature 357:455-460 (1992).

Watanabe et al., "Pancreatic Beta-Cell Replication and Amelioration of Surgical Diabetes by Reg Protein", Proc. Natl. Acad. Sci. USA 91:3589-3592 (1994).

Liang et al., "Distribution and Cloning of Eukaryotic mRNAs by Means of Differential Display: Refinements and Optimization", Nucleic Acids Research 21(14):3269-3275 (1993).

Lu et al. (11 Apr. 1996) Nature, vol. 380, pp. 544-547.

Rosenberg et al., "Reversal of Diabetes by the Induction of Islet Cell Neogenesis", Transplantation Proceedings 24(3):1027-1028 (1992).

Rouquier et al., "Rat Pancreatic Stone Protein Messenger RNA",J. Biol. Chem., 266(2):786-791 (1991).

Lasserre et al., "A Novel Gene (HIP) Activated in Human Primary Liver Cancer",Cancer Research 52:5089-5095.

Terazono et al., "A Novel Gene Activated in Regenerating Islets", J. Biol. Chem., 263(5):211-2114 (1988).

Vinik et al., "Factors Controlling Pancreatic Islet Neogenesis", Yale Journal of Biology and Medicine 65:471-491 (1992).

Orelle et al., "Human Pancreatitis-associated Protein" J. Clin. Invest.

90:2284-2291 (1992).

Pittenger et al., "The Partial Isolation and Characterization of Ilotropin, a Novel Islet-Specific Growth Factor", Adv. Exp. Med. Biol. 321:123-130 (1992) Abstract.

Rosenberg, et al., "Trophic Stimulatin of th eDuctular-Islet Cell Axis: A New Approach to the Treatment of Diabetes", Pancreatic Islet Cell Rgeneration and Growth, edited by A. I. Vinik, Plenum Press, New York, 1992.

Publication Stage :

(A) United States patent

Abstract :

Removal of the nucleotide sequence encoding the signal peptide from the INGAP coding sequence allows cultured cells to express substantial amounts of INGAP activity. Previous attempts have provided only low yields of INGAP, possibly because the signal sequence of INGAP is toxic to the cells.

Search statement 2

Query/Command : st

Session finished: 17 AUG 2004 Time 15:30:12

PLUSPAT - Time in minutes : 1,38
The cost estimation below is based on Questel's standard price list

Estimated cost :	3.33	USD
Records displayed and billed : 1		
Estimated cost :	1.32	USD
Cost estimated for the last database search :	4.65	USD
Estimated total session cost :	5.84	USD

Your session will be retained for 2 hours.

QUESTEL.ORBIT thanks you. Hope to hear from you again soon.

Searched by P. Ruppel